Emissions Inventory Help Sheet for the Woodworking Industry

What do I need to report?

The woodworking industry needs to report wood coating emissions, the emissions from cleanup materials and dust emissions from the sawing and sanding of wood. Use the **General Process Form** to report dust (PM_{10}) emissions based on the tons of wood waste created. Use the **Evaporative Process Form** to report the evaporation (drying) of coatings and cleaning materials. Refer to the "Instructions for Reporting 2004 Annual Air Pollution Emissions" for specific instructions and process form examples.

NOTE: If your business has an issued or pending Title V permit, please consult our "Instructions" document for details on how to report processes that produce PM_{10} and how to calculate emission fees.

How do I fill out the Evaporative Process and General Process Forms?

- "Process Type/Description" should include basic process information such as:
  "Coating wood furniture," "Cleaning of spray guns," "Baghouse emissions," "Wood waste bin vent," etc.
- Use one of the following Tier Codes:

080409	Coating of wood furniture	080411	Coating of flatwood products
080425	Coating of miscellaneous	080103	Cold cleaning
070399	Industrial processing: wood, pulp & paper (dust)		

- If Process IDs are not printed on your forms, assign a different Process ID number for each General Process Form and each material on an Evaporative Process Form. (See the Instructions, page 3, for more discussion of identification numbers.)
- Evaporative Process Form, column 8 "Material Type": List the coatings and cleaning materials, such as "lacquer," "paint," "stain," "mineral spirits," etc.
- Evaporative Process Form, column 9 "Annual Usage": Provide the number of gallons or pounds of each coating or cleaning material used during the year. Write in whether the units are gallons (gal) or pounds (lbs).
- General Process Form, line 9 "Emissions based on": Enter "wood waste" or "sawdust."
- General Process Form, line 13 "Annual Amount": Provide the amount of wood waste collected (pounds or tons of a size small enough to be handled by an air handler).
- General Process Form, columns 20 & 23 "Capture & Control Efficiency": Provide the percentage of PM_{10} (dust) captured and controlled by the baghouse or cyclone. (Defaults: 100% capture & 99.9% control for baghouses; 100% capture and 85% control for cyclones)*

How do I determine the emission factors for my coating and cleaning materials?

An emission factor is the number that is used to calculate pounds of pollutant emitted from gallons or pounds of material used. The best source for this information is your MSDS or supplier. The emission factor can be expressed as a fraction of pollutants by weight (lb/lb) or pounds of pollutants per gallon (lb/gal). Report your emission factor(s) in the units of measure to match the units for reporting the amount used (column 9). For example, if you report gallons used, your emission factor must be in pounds per gallon. See the Instructions for further details and examples of the process forms.

What are my emission factors from my woodworking equipment?

1. Emissions from baghouses or cyclones vented outdoors.
2. Bin vent emissions come from wood waste being discharged into a bin located or vented outdoors.
3. Bin loadout emissions come from emptying the bin into another container or into a hauling truck. If your sawdust bin is covered and hauled away, then there are no loadout emissions.

Process Type	SCC Code	Emissions Factor	Emissions Factor (EF) Units
Baghouse or Cyclone operations*	30788801	100 (uncontrolled)	lb/ton total wood waste hauled away
Wood waste storage bin vent	30703001	0.58 (uncontrolled)	lb/ton total wood waste hauled away
Wood waste storage bin loadout	30703002	1.2 (uncontrolled)	lb/ton total wood waste hauled away

*Example equation for calculating emissions from a baghouse:	Annual wood waste (500 tons)	x	emission factor (100 lb/ton)	x	1 – (% capture x % control) 1 – (100.00% x 99.9%)	= lbs. of PM_{10} = 50 lbs. of PM_{10}